

ABSTRACT

A transceiver unit, particularly for measuring applications, comprising a transmitter (1) for generating a signal, an acquisition antenna (5) for emitting the signal in an acquisition volume and for picking up an effective echo signal reflected by the acquisition volume, as well as a receiver (2) for evaluating an echo signal supplied by the acquisition antenna (5). The echo signal is composed of the effective echo signal and an unwanted echo signal generated by the acquisition antenna (5). In order to compensate for the unwanted echo signal, an antenna simulation (6) is connected via a coupler (3) to the transmitter (1) and the receiver (2) which, after having received the signal, supply an correction signal in proportion to the unwanted echo signal. The coupler so heterodynes the correction signal and the echo signal that the correction signal and the unwanted echo signal cancel out each other.